Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
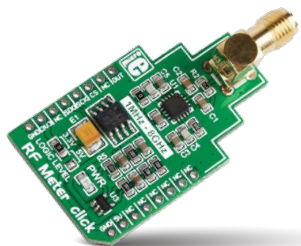
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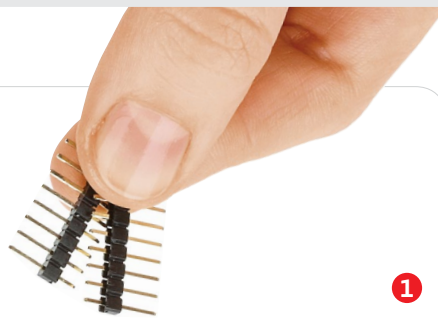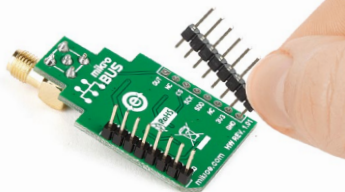
RF Meter click

1. Introduction

RF Meter click is a radio frequency power measurement device covering a frequency span from 1 MHz to 8 GHz over a 60 dB range (approximately). An external antenna acquires the signal, which is then processed by the **AD8318** logarithmic detector. The resulting voltage is fed into an **MCP3201** ADC. For communicating with the target board MCU, the mikroBUS™ SPI interface is used (CS, SCK, MISO pins), with additional TEMP OUT pin.

2. Soldering the headers

Before using your click board™, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.
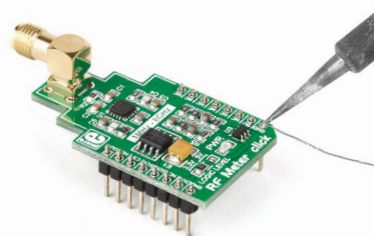
❶

❷

Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.
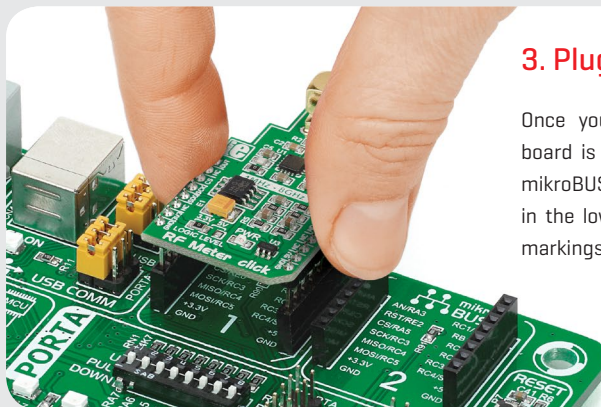
❸

Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.
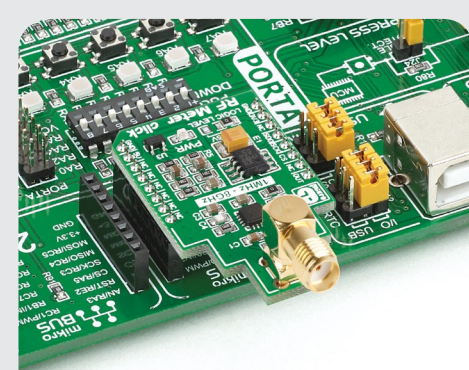
3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.

4. Essential features

Radio frequency meters are usually used for testing equipment that includes RF transmitters or relays. It enables monitoring and measuring frequency levels to ensure proper functioning and leak detection. The AD8318 has a 10 nano second response time and a high level of logarithmic intercept stability at various temperature conditions. The chip integrates a temperature sensor whose output is available through the TEMP OUT pin, which can be used for additional system monitoring.
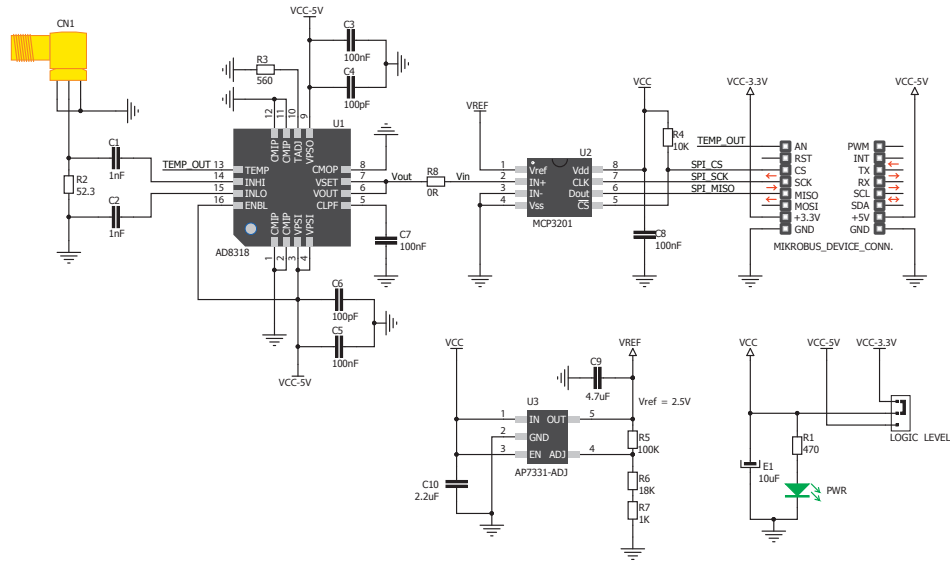
click BOARDS™

www.mikroe.com

5. Schematic

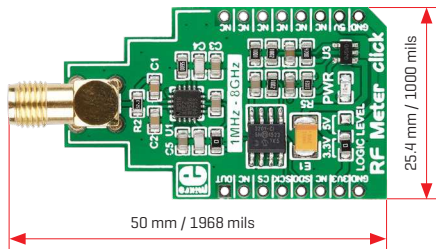# 8. Code examples

9. Support

MikroElektronika offers **free tech support (www.mikroe.com/support)** until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

6. Dimensions

	mm	mils
LENGTH	50	1968
WIDTH	25.4	1000
HEIGHT*	3.9	154

50 mm / 1968 mils

25.4 mm / 1000 mils

* without headers

7. SMD jumper
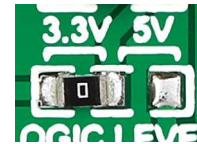
RF Meter click has an SMD jumper (zero ohm resistor) for setting the logic level either at 3.3V or 5V.

10. Disclaimer